

Horticultural.

The Cut Worm.

We have received a great many letters from readers who wish to know about cut worm. We treated of this pest before. In certain sections its ravages are very great this year. Several insects, not properly cut worms, are called by that name by people who do not care to make distinctions, and who, in consternation, see only the evil that is done. For instance, the corn grub is frequently called the cut worm. The moth which lays the egg from which the cut worm is hatched is a gray-brown. It is sometimes called the dust moth. It may be seen flitting around the lighted lamp in the evening. Every one killed may save plants. For that very reason farmers should discourage the killing of small birds which are fond of these moths. The crow is especially fond of the cut worm. Do not always believe that the crow is stealing corn. He is a great devourer of worms. The moth of the cut worm proper lay its eggs in the latter part of summer. The hatching period is short. As soon as the young grub is hatched it begins to feed on whatever it can lay its "hands" on. After hiding in the ground all winter it comes up in the spring and begins to devour plants. In the latter part of summer it becomes a moth, and it lays eggs. In the grub state it cuts off plants close to the ground and tries to drag its huddle in after. A guinea hen would soon find it. A farmer who is not too busy will find it just under the soil and crush it out of existence. Where the garden is extensive this method cannot always be followed. After the first of August in this latitude the cut worm, to which one of our readers refers, the tiger worm or red head disappears, but not until he has done a great deal of damage to spring and early summer crops. The big, fat, white grub to which a Pennsylvania correspondent refers is the one that is making havoc with young corn also in other sections of the country. It will destroy even grass. In our garden we have been in the habit of sowing both lime and salt on the plowed land. We have found that where land is infested with this grub the blue birds like to visit; and they should by all means be encouraged. In the crop of a row which was shot on such land we found three or four grains of corn and a score of the grubs. We believe that the blue bird hunts for the moths under tree leaves, where they hide during the day. There are many intelligent farmers who doubt that the cut worm destroys the cut worm. The worm generally lives very close to the plant which he destroys. By digging near it he will always be found. If you find a small piece of plant or leaf which seems to have one end stuck in the ground, you may be sure, as we said before, that the worm is beneath it, and has been trying to pull it in after him. If you do not kill it you will lose more plants. These worms are night thieves. They hide during the day. Even when a plant is wilted do not always lay the blame on the sun; the worm may be directly under the root. The cut worm destroys more than it eats. It bores through a stem and then bores another. It is up before daybreak and works quickly. It works until late in the year. We have pulled weeds late in the autumn, and upon examination found a plenty of the worms. They should be immediately killed, or in the following spring they will feed on all kinds of young and tender garden stuff. It is then that their ravages are most severely felt. We believe in a pulling, drying and burning of weeds in the autumn. By plowing the land in autumn these fellows may be turned up and exposed to the birds. We have little faith in the idea that the frost will catch and destroy them, because it is not likely that they are going to stay out of the ground late. After it becomes torpid with cold weather, however, it is liable to perish. Hence, late fall plowing is of great service. We have tried a lye made from wood ashes in the spring with apparent success. But nothing succeeds better than salt and, next to that, lime. Searching for and killing seems to be the greatest where it can be practised. But every farmer and his family ought to be impressed with the idea that every moth, beetle and slug ought to be killed at sight. Also every caterpillar. All the beautiful striped bugs are enemies of the farmer. The pretty, little, spotted, white butterfly, which children try to catch with their hats, and which gentle hearts of mothers suggest should be let go again, will probably deposit eggs which will hatch cabbage worms. Kill the beauties. The ash colored butterflies are very dangerous. Kill them whenever you see them, but early in the year before they have laid their eggs. They are wise insects, and know just where to lay them. The May bug, a light brown beetle, with sharp little claws, is out in the early evenings. It dashes against your face or against the window. Sometimes it is called the June bug. While you are picking cherries at twilight you will frequently see it, feel it or hear its humming. It is somehow fond of the neighborhood of cherry tree. Probably it is fond of the leaves of the cherry tree. In the day time it will lie under the cherry tree leaves. Kill every one you see. That moth with one wing light and the forward part gray brown, with a broad dark brown streak crossed by bars, is the one that becomes the mother of the cut worm proper. Kill it.

To Destroy the Cut Worm.

The cut worms have come and gone, yet a few hints will not be amiss for

their next appearance. An exchange has the following:

A new method of destroying cut-worms has been lately discovered. As these worms are doing considerable damage in some sections of our country, we will give our readers the benefit of the new remedy. It should be remembered that Paris green, spoken of below, is a poison, and should be handled accordingly. A trial was made of different kinds of leaves placed on the ground to see what kinds the worms would prefer. It was found that they were not very particular as to what kind of food they had but perhaps showed some preference for the young, tender leaves of chestnut trees. A quantity of these were then taken and soaked in a mixture of Paris green and water—a tablespoonful of poison to each gallon of water. The leaves were then placed over the field at short distances apart, each one being held to its place by a small stone or a little soil. "The next morning," says the narrator, "I went out into the field to see what was the result. What I saw did me good. There those worms lay under the leaves, like a hole of potatoes; they had eaten little shot-holes through the leaves, and some were dead and some were in a very stupid condition—they never chewed again. I then set out my tobacco and was not troubled with the cut worms after that."

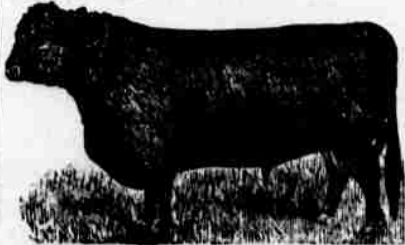
The Zodiacal Light.

The cause of the luminous phenomenon known as the zodiacal light has long been the subject of speculation, and numerous hypotheses have been suggested to account for it. A correspondent of Cosmos les Mondes regards the entire phenomenon as one of the reflection of light. What we observe is nothing but reflection of that part of the earth which is illuminated shortly before the sun rises and after it sets. In order to understand this we must assume that the earth is surrounded by a certain distance by a comparatively dense envelope of gas, beyond which the latter exists in a state of great attenuation. We therefore have two media of different density which influence the rays of light in the well known way, refracting them up to a certain limiting angle of incidence, beyond which total reflection takes place. If we imagine the sun a little below the horizon, a part of the earth directly in front of us will reflect the rays of the sun at a very obtuse angle; these rays, meeting the boundary of the media at a very obtuse angle, will be totally reflected, and it is these totally reflected rays which we see. This explains the appearance of the light in the shape of a cone whose line is always inclined in the direction of the ecliptic, and whose base is toward the sun; it also accounts for the fact that the changes observed in its appearance follow a reverse order in the evening from that in the morning. The evening why the cone is longer in the evening than in the morning is that the layer of dense atmosphere is expanded by reason of its exposure to the sun's radiation through the entire day, whereas in the morning the reverse is the case.

Ayers Agree Cure is a powerful tonic bitter, composed wholly of vegetable substances. Its action is peculiar, prompt and powerful, breaking up the chill, curing the fever and expelling the poison from the system, yet leaving no harmful or unpleasant effect upon the patient. Sufferers from chills and fever who have used quinine as a remedy will appreciate this.

Oak Lawn Stock Farm.

R. W. Carey, Salem, Ogn. Importer and Breeder of...



BENDEEN, ANGUS and JERNEY CATTLE. Cotswold, Shropshire and American or Improved Spanish Mer No Sheep of the best Vermont blood. Also Short Horned, dish face, English Berkshires. Service fee of Aberdeen, \$25; Jersey, \$6. The Male Increase for the Year for Sale. Jan 1/84

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WILLIAM KNABE & CO. Nos. 204 and 206 West Baltimore Street, Baltimore. No. 113 Fifth Avenue, N. Y.

NEW Singer Sewing Machine \$15 including an extra attachment of 9 pieces and needles, oil and manual of 12 pieces with each. Guaranteed perfect. Warranted durable, quiet and light running. Don't pay \$20 to \$40 for machines so better. We will send you anywhere on trial before paying. Circulars free. Have \$10 to \$15 by addressing GEO. PAYNE & CO., 17 Third Ave., Chicago, Ill.

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Loss of Appetite, Headache, Depression, Indigestion and Constipation, Biliousness, a Sallow Face, Dull Eyes, and a Bloated Skin, are among the symptoms which indicate that the Liver is crying for aid.

Ayer's Pills

will stimulate the Liver to proper action, and correct all these troubles. One or more of these Pills should be taken daily, until health is fully established. Thousands testify to their great merit. No family can afford to be without AYER'S PILLS.

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TORPID BOWELS, DISORDERED LIVER, and MALARIA.

From 8000 to 10000 arise three-fourths of the diseases of the human race. Those symptoms indicate their existence: Loss of Appetite, Bowels constive, Sick Headache, Fatigues after eating, aversion to exertion of body or mind, Eructation of food, Irritability of temper, Low spirits, A feeling of having neglected some duty, Distresses, Fluctuating at the Heart, Dots before the eyes, highly colored Urine, CONSTIPATION, and demand the use of a remedy that acts directly on the Liver. An Liver medicine TUTT'S PILLS is the only one that does so. Their action on the Kidneys and Skin is also prompt; removing all impurities through these three scavengers of the system, producing a clear skin and a vigorous body. TUTT'S PILLS cause no nausea or griping nor interfere with daily work and are a perfect ANTIDOTE TO MALARIA. Sold every where, Price, 25c. Office, 44 Murray St., N. Y.

TUTT'S HAIR DYE.

GRAY HAIR OR WHISKERS changed instantly to a GLOSSY BLACK by a single application of this DYE. Sold by Druggists, or direct by express on receipt of \$1. Office, 44 Murray Street, New York. TUTT'S MANUAL OF USEFUL RECEIPTS FREE.

DENTISTRY.

DR. E. HOWELL, PRACTICAL DENTIST. Office at residence of Wesley Howell, Howell Prairie. All work done on New Style, and satisfaction guaranteed. Hours

The Standard Bred Trotting Stallion.

Will make the season of 1884, On Mondays and Tuesdays at Marshall's stable, Albany; Thursdays, Fridays and Saturdays at Ford & Minto's stable, Salem. TERMS: Season, \$50; Insurance, \$5. PEDIGREE:—This stallion is a dapple bay with black points, 16 hands 2 1/2 inches high, and weighs 1100 pounds. His record in Oregon is 2:34, got ten days after leaving the stud at Salem three years ago, and in California, 2:30. In California, three miles in 7:29; last mile in 2:29.

INAUGURATION.

Will make the season of 1884, Commencing March 15 and ending July 1: On Mondays and Tuesdays at Marshall's stable, Albany; Thursdays, Fridays and Saturdays at Ford & Minto's stable, Salem. TERMS: Season, \$50; Insurance, \$5. PEDIGREE:—Inauguration was sired by California Alexander, (400), by Geo. M. Patchen, Jr., (31), by Geo. M. Patchen, (30), by Alexander, (19) by Henry (2), by Andrew Jackson, (4), by Young Bashaw, by imported Grand Bashaw. Inauguration dam was imported from New York by the late J. W. Britton, and sired by the noted horse Hossain, (100), by Major, (100), by Young Alfie, Young America, Ledger Colt, Privateer, etc. Alexander, (sire of Inauguration), got his record of 2:31 in the seventh heat of a race. But 1 mile drove time in Oregon, 2:30. He also trotted 3 miles in 7:54. Of his get the following are so well known as to only need mentioning: Nellie Patchen, (27); Reliance, (25); Sonoma, (27); Tommy Dodd, (24); and Leland, (24). Mares from a distance will be received, and cared for same as owner's mares are, but will not be responsible for accidents. Mares will be charged 50 cents per week for p. storage. C. T. FURBER, Proprietor.

The Thoroughbred Stallion Woodbury.

Will make Season of 1884, as follows: At L. S. Scott's Livery Stable, Salem, on Fridays and Saturdays; Sundays at farm of John K. V. Howell (Prairie)—where good pasture is secured by arrangement of mares from a distance; Mondays at Dixie; Tuesdays at Dallas, and Wednesdays at Independence. Description.—Woodbury is a beautiful mahogany bay, 13 years of age, 15 1/2 hands high, weighing 1175 lbs., 74 inches around the heart, perfect symmetrical, with immense power and substance stamp him second to no Stallion in America. Pedigree.—Woodbury was sired by Woodburn, (dam by Irish Bird Catcher, by Lexington, he by Boston, he by Timoleon, he by Sir Archie, he by Imp. Diomedes. I will add \$500 to a sweepstake of \$50 entrance, half forfeit, to be trotted for in the fall of 1887, by Woodbury foals of 1885. Contest to be one mile heats, two in three in harness, weight of driver to be 185 lbs. The contest in all other respects to be governed by National rules; \$25 to be paid 1st day of June, 1884, and \$25 to be paid by 12 o'clock noon of the day of the race; to be trotted on the track that will add most money, which money shall be added to the main stake. To be divided into three moneys—50 per cent. to first, 25 per cent. to second, and 15 per cent. to third horse. I will also add \$250 to a sweepstake of \$25 entrance, half forfeit; to be run for in the fall of 1887, by Woodbury foals of 1885, to be contested over the track that will add most money; added money, forfeits and entries all to go with stake, \$125 to be paid by the first day of June, 1884, and balance by 12 o'clock noon of the day of the race. Any and all stallions in all parts of the world are invited to participate on equal terms, and conditions with Woodbury in this running race. Money to be divided as follows: Fifty per cent. to first, 25 to second, 15 to third, 10 to fourth. The race to be a single dash of three-fourths of a mile. TERMS.—To insure, \$50, payable when the mare is known to be in foal. For further particulars see circulars, to be had by applying to D. M. WELLS, Proprietor, Salem, Oregon.

The Pure Bred Kentucky Jack GIANT.

Bred by Robert Lee, Mercer Co., Ky. PEDIGREE.—Giant was foaled on May 25, 1872, sired by Donald, a mammoth Jack owned by Mr. Stegall of Boyce county, Kentucky; dam Janet, owned by Sampson, a horse of the same name in Kentucky, owned in Woodford county, Kentucky. For three years Giant was in the stud in Kentucky, and proved to be a fine sire as well as a sure foal getter. TERMS.—Season, \$20; Insurance, \$30.

The Fine Trotting Stallion "M.A.C."

Record 2:16, Bay View Park, San Francisco. PEDIGREE.—The following pedigree is from Wallbridge Trotting Register. Mac was sired by Sawyer's Colt, he by Stockbridge Chief, he by Vermont Black Hawk, Stockbridge Chief dam by Sir Charles, he by Purlock Messenger, he by Diomedes, son of Duroc, his dam by Messenger, he by Imported Messenger, he by Membrino, his dam by Turf, grand dam by Requies, he by Starting, he by Fax. Dam of Sawyer's Colt was San Jose Daniel, by Easton's David Hill, he by Vermont Black Hawk, her dam the dam of Dashaway, the celebrated race horse. Mac's dam was by General Taylor, out of a thoroughbred mare imported to the State from Missouri, by Haskell, Esq. Gen. Taylor by the famous horse horse, he by Imported Norman from France. Dam of Morse horse by Ogden's Messenger, he by Imported Messenger; his dam by Katy Fisher by Imported Highflyer, grand dam by Jerry Eclipse. TERMS.—Season, \$25; Insurance, \$35.

The Imported Clydesdale MARQUIS.

Marquis is too well known to require an extended description here. His terms are the same as Mac's. All the above will stand as follows: at Ford & Minto's stable, in Salem, on Thursday, Friday and Saturday of each week. The remainder of the time at my farm in the Walse Hills. Mares from a distance of more than 100 miles per month. No responsibility assumed for accidents or escapes, but exercise due care and caution to prevent them. For further particulars address: Inquire T. J. HENNING, Proprietor, Monday, Oregon.

THE IMPORTED CARRIAGE STALLION KING TOM.

Will make the season of 1884 as follows: Sublimity.—AT G. S. Downing's, two miles north of Sublimity, on Mondays and Tuesday forenoon, and on Friday afternoons and Wednesdays forenoon. At Ford & Minto's stable, on Thursdays, Fridays and Saturdays. TERMS: Season, \$20; Insurance, \$10. Mares bred by season payable at last two months. Inserta on when the mare is known to be in foal, or the animal is disposed of or traded off. Parties disposing of mares bred by season will be held responsible for the insurance money. Every care taken to prevent accidents but responsibility assumed for accidents or escapes from a distance at reasonable rates. DESCRIPTION.—KING TOM is a bright bay with black points, 16 1/2 hands high; weight 1400; free from blemish; fine carriage horse; sure foal getter. PEDIGREE.—KING TOM was sired by Decker, sired by Old King Tom. Old King Tom is a bright bay, and stands 16 hands; bred at Woodford Farm Kentucky; foaled 1860; got by Lexington 1st dam, Tokay by Imp. Yorkton; 2d dam, Miss Martin, white to G. S. Martin, by Garrison's Figtree; 3d dam, G. S. Martin, by Sir Archie; 4th dam, Irb's 3d dam, by Bellar; 5th dam, Irb's 4th dam, by Imp. Jolly to Jeger; 6th dam, Irb's 5th dam, by Imp. Jolly to Jeger; 7th dam by Valant; 8th dam by Tyrall, by Imp. Traveler out of Blazela. The dam of Young KING TOM was sired by Decker; sired by Sir Tatam; grand dam, by Decker's Royal George; he by Black Warrior. For further particulars address: E. W. ROSSITER, Whiteaker, Ogn.

THE HIGHLY BRED TROTTER MASON CHIEF.

Will make the season as follows: Annsville.—Mondays, Tuesdays and Wednesdays, Salem, (at Galien Fishers' stable);... PEDIGREE.—MASON CHIEF, (full brother to Girl E. Queen, 2:33) as 3 years old, brown stallion; foaled 1877; bred by Herr & Young, at Forest Park, Lexington, Ky.; by Membrino, P. Nelson, by Membrino Child, by Membrino Parkmaster, by Membrino, y Imported Messenger. First dam by Richard's imported Arabian, Mocham; 2d dam by Stockholder, by S. R. Archie; 3d dam, by Sumter, by Sir Archie, he imported Robin Hood; 4th dam, by Imp. Jolly to Jeger; 5th dam by Valant; 6th dam by Tyrall, by Imp. Traveler out of Blazela. TERMS.—Season \$25; to insurance, \$35. By season payable July 1; insure once, when known to be with foal. Care taken to avoid accidents but no responsibility assumed. Good pasturage at reasonable rates. Apply to agent G. W. PECK, Annsville, Oregon.

The Thoroughbred Stallion Al-Bute.

For a Limited Number of Good Mares. Will make the season of 1884, from April 1 to July 1, at La Fayette, Mondays and Tuesdays, at Home farm, — Wednesdays at G. S. Martin's stable, — At Galien Fishers Stable, Fridays and Saturdays. Terms.—Single service, \$15; Season, \$25; Insurance, \$30. DESCRIPTION.—Al-Bute is a beautiful dark chestnut, 16 hands high; won the sweepstakes for 2-year olds, at the State Fair, and in trials showed wonderful speed. Bred by Mr. Baskett, of Polk county, Oregon. PEDIGREE.—Sired by George Wilkes, he by Astor, 2d dam, by Mollie Jackson, she by Lexington. First dam by Arrow Hawk, by Humboldt; 2d dam Mary Moss by imported George, Humboldt; (one of Al-Bute's sire) was by Pacific Laplander, by old Laplander, he by George, by Mary of Boyds, by Commack Jack, Gull, by Expedition, by Pegasus, he by the matchless horse Eclipse of England. Humboldt's dam, Julia Walker, by Lucas, he by Stockholder, he by old Sir Archie; grand dam by Juno, by Diomedes; grand dam by Jim Clark. He will be in the care of as good a horseman as Oregon affords, who will exercise the greatest care, but all accidents are at risk of owners of mares. SALEM & LA FAYETTE TOWNSHIP, Tom McCann, in charge, April

Imported Clydesdale Stallion SIR STAFFORD.

Four Years Old in July, weighed 1700 pounds the first of March, stands 16 1/2 hands high. PEDIGREE.—Foaled July 12, 1880; bred by A. & E. Brownlee, Boyds, Newmarket's Lanarkshire; sire Baron Brownlee, sire of Boyds, by Commack Jack, Baron Brownlee is one of the best breeding stallions in Scotland. TERMS.—SIR STAFFORD, \$25 for season; \$30 to insure. Fletcher & Savage, Prop.

English Draft Horse COL. MESSENGER.

This fine stallion was raised by Mr. Newhouse of Albany. He is 7 years old May 1, 1884, stands 16 1/2 hands, is an imported English draft horse and the dam goes back to Messenger stock in Ohio. This Oregon bred stallion weighs 1,600, is of excellent draft stock, far superior to the common Percheron or Clydesdale, and shows progeny that cannot be beaten in the state. COL. MESSENGER will stand for the season of 1884, as follows: Gervais.—City Feed Stables, Monday and Tuesday. TERMS.—For the Season, \$15; Insurance, \$20. For further particulars inquire of F. M. WRIGHT, in charge, Salem, Oregon.

IMPERIAL EGG FOOD.

For the Season, \$15; Insurance, \$20. For further particulars inquire of F. M. WRIGHT, in charge, Salem, Oregon.

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THE MARCH POTATO DIGGER. Saves the cost of hiring, saves time, makes 100 bushels of potatoes in 10 days. Sent on 60 Days' Trial. Agents Wanted.

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Percheron-Norman Horse ST. GEORGE.

Sired by WIDE-AWAKE, dam from W. C. Meyer's FLEET and dam from WHITE PRINCE, great grand-dam from DALY'S DOUGLAS. He is large in size, has good style and fine action. He is a true type of his sire, WIDE-AWAKE. These horses will stand at the Stable of Ford & Minto, Salem, from Tuesday until Saturday night of each week through the season. TERMS.—SIR STAFFORD, \$25 for season; \$30 to insure. Fletcher & Savage, Prop.

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Bee Keepers Supplies!

The undersigned has for sale at fair prices nice comb foundation for both brood nest and surplus boxes. Bee hives of the most approved style—with broad and narrow frames—also surplus boxes and other "fixings" bee men require. I am prepared to receive orders for Italian Queens—the same being bred from choice imported mothers and warranted pure bred. Prices for Queens, in June, \$3. In sending orders for foundation state size of sheet and whether heavy or light is required. Price sent upon application. E. Y. CHASE, Salem, Or.

JOHNSON GRASS, TIMOTHY AND CLOVER SED.

MILLER BROS., Seedmen, No. 208 Second Street, Portland.

HAVE A LARGE INVOICE OF THE ABOVE name grass seeds. They can supply all demands in lots to suit purchasers. Send for price-list.

Corbett's Fire Proof Livery Hack & Feed Stable.

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